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REMARKS

Claims 11 to 23 have been withdrawn from examination without prejudice.

Claim 24 is as previously presented and allowed.

Claims 25 and 26 are canceled.

Claim 27 is as previously presented and allowed.

Claim 28 is amended so as to withdraw from consideration anhydrous dextrose and anhydrous trehalose. It is respectfully submitted that the melting point of the xylose is within the range disclosed in claim 24, so it was kept as such within claim 28 (see enclosure : two pages of the Merck Index - 10^{th} Edition (1983)).

Claim 29 is as previously presented and allowed.

Claims 30 to 36 are withdrawn from examination until allowance since a rejoinder has been requested. Claims 30 to 32 and 34 to 36 were allowed as previously presented.

Claim 33 has been withdrawn from consideration. The feature of claim 33 is already within claim 24 which is allowed.

Claim 34 has been currently amended so as to change its dependency.

In view of the foregoing, favorable consideration and prompt allowance of these claims are respectfully requested.

Respectfully submitted

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AN ENCYCLOPEDIA OF CHEMICALS, DRUGS, AND BIOLOGICALS

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mp 131-133°.

Hydrochloride, C_{1t}H₁₂ClN₂, Novorin, Olynth, Otriven, Otrivin, Otrix. Soly in water: up to 3%; also sol in methanol, ethanol. Practically insol in ether, benzene. THERAP CAT: Adrenergic (vasoconstrictor)

9896. Xylopropamine. a.3.4- Trimethylbenzeneethanamine; a,3,4-trimethylphenethylamine; 1-(3,4-dimethylphenyi)-2-aminopropane. C₁₁H₁₇N; mol wt 163.25. C 80.92%, H 10.50%, N 8.58%. Prepd from 1-(3,4-dimethylphenyl)-2propanone and ammonia in methanol followed by catalytic reduction: Swiss pat. 230,368 (1944 to Hoffmann-La Roche); C.A. 43, 3454i (1949).

Oil, bp₁₂ 116-118°. Slightly sol in water. Hydrobromide, C₁₁H₁₈BrN, crystals, mp 132-133°. Ingredient of Esanin.

THERAP CAT: Adrenergic.

9897, Xylose, D-Xylose; wood sugar. C₅H₁₀O₅ mol wt 150.13. C 40.00%, H 6.71%, O 53.29%. Widely distributed in plant materials, especially in wood (maple, cherry), in straw, in hulls. Not found in free state, but in form of xylan, a polysaccharide built from D-xylose units and occurring in association with cellulose. Xylose occurs also as part of glyassociation with cellulose. Xylose occurs also as part of gly-cosides. Isoln from corn cobs by boiling with 8% H₂SO₄: Monroe, J. Am. Chm. Soc. 41, 1002 (1919). Peanut shells and cottonseed hulls also are practical sources of xylose: Ling, Nanji, J. Chem. Soc. 1923, 620. Configuration: Hudson, Yanovsky, J. Am. Chem. Soc. 39, 1029 (1917); Haworth. Nature 116, 430 (1925). Review on history, con-stitution and prepn: Harding, Sugar 24, 14 (1922).

Monoclinic needles or prisms. Very sweet taste. mp 144-145' (Wheeler, Tollens, Ann. 254, 309); mp 153-154' (Hébert, Compt. Rend. 110, 970). d_{ν}^{10} 1.525. Shows mutarotation. [α] β^{0} +92' \rightarrow +18.6' (16 hrs c = 10). One gram dissolves in 0.8 ml water. Sol in pyridine, hot alcohol. Ka at 18' = 7.2 × 10⁻¹³. Reduces warm Fehling's soln. Upon heating with water in closed tube to 140' or by boiling with dil H₂SO₄ furfurol is formed.

USE: Xylose is used in tanning, dyeing, and as a diabetic

THERAP CAT: Diagnostic aid (intestinal malabsorption).

9898, Xylulose. three-Pentulose. C₅H₁₀O₅; mol wt 150.13. C 40.00%, H 6.71%, O 53.29%. L-Form has been found in the urine of humans with pentosuria. Prepn of DI-form: Gascoigne, Chem. & Ind. (London) 1959, 402; of D-form: Mendicino, J. Am. Chem. Soc. 82, 4975 (1960); of L-form: Wolfrom, Bennett, J. Org. Chem. 30, 458 (1965). Isoln of DI-form from the acid hydrolysate of bagasse hemistry. ison of DL-form from the acid hydrolysate of bagasse hemi-cellulose: Banerjee et al., Sci. Cult. (Calcutta) 27, 498 (1961), C.A. 56, 11682d (1962). Enzymic prepn of L-form: Hough, Iones, Chem. & Ind. (London) 1952, 907; eidem, J. Chem. Soc. 1952, 4047. Formation of L-form in normal humans and guinea pigs, and its utilization by guinea-pig liver prepns: Touster et al., J. Am. Chem. Soc. 76, 5005 (1954). Reviews: The Carbohydrates, W. Pigman, Ed. (Academic Press New York, 1957) pp. 9, 26-27, 75, 795. Marked in Press, New York, 1957) pp 80, 86-87, 759, 795; Methods in Carbohydrate Chemistry vol. 1, R. L. Whistler, M. L. Wolfrom, Eds. (Academic Press, New York, 1962) pp 94-101.

L-isomer

D-Isomer, syrup. [a] $^{18}_{1}$ -33° (c = 2.5). D-Isomer p-bromophenylhydrazone, $C_{11}H_{15}BrN_{2}O_{4}$, pale ellow crystals from abs ethanol + water, mp 128-129°. [a] +24° (15 min) - -31° (7 days, in pyridine). Ref. Whistler, Wolfrom, loc. cit.

L-Isomer, syrup. [a] $_{1}^{2}+31^{\circ}$. L-Isomer p-bromophenylhydrazone, yellow plates from dil alc, mp 128°. [a] $_{2}^{2}-20^{\circ}$ (10 min) $_{-}+22^{\circ}$ (5 hrs, c \approx 0.5 in ethanol).

9899. 1-Xylylazo-2-naphthol. I-[(2,4-Dimethylphenyl)-azo]-2-naphthalenol; C.I. Solvent Orange 7; 1-(2,4-xylyl-azo)-2-naphthol; FD & C Red no. 32; Oil Red XO; Ext. D & C Red no. 14; C.I. 12140. C₁₂H₁₆N₂O; mol wt 276.32. C 78.24%, H 5.84%, N 10.14%, O 5.79%. Once reported as 2.5-xylylazo deriv. Prepd by coupling diazotized m-xylidene with 2-naphthol: J. M. Tedder, J. Chem. Soc. 1957, 4003; R. B. Smyth, G. G. McKeown, J. Chromatog. 5, 395 (1961). Metabolism: J. L. Radomski, J. Pharm. Exp. Ther. 136, 178 (1962). 136, 378 (1962).

Red needles, mp 166°. Insol in water; sol in ethanol, acetone, benzene

Caution: Delisted for use in foods, drugs, and cosmetics by the FDA.

9900. Xylyl Bromide. C₃H₂Br: mol wt 185.07. C 51.92%, H 4.90%, Br 43.18%. Prepn of m-isomer: Wenner, J. Org. Chem. 17, 523 (1952); of o-isomer: Dev. J. Indian Chem. Soc. 32, 403 (1955); of p-isomer: Cockburn et al. J. Chem. Soc. 1960, 3340.

m-Xylyl bromide, 1-(bromomethyl)-3-methylbenzene, m-Xylyl bromide, 1-(bromomethyl)-3-methylbenzene, α-bromo-m-xylene, m-methylbenzyl bromide, ω-bromo-m-xylene. Liquid, bp 212-215° with slight dec. d²³ 1.371. Practically insol in water; sol in alcohol, ether. α-Xylyl bromide. Prisms, mp 21°. bp 223-234°, bp₇₆₂ 216-217°, bp₁₅ 102°. n₁ 1.5730. d²³ 1.381. Practically insol in water; sol in alcohol, ether. p-Xylyl bromide. Needles from alcohol, mp 38°, bp₇₆₆ 218-220°, bp₁₅ 120°. d 1.324. Practically insol in water; very sol in chloroform, hot ether. USE: In organic syntheses: in war-gas formulations. Cau-

USE: In organic syntheses; in war-gas formulations. Cau-tion: Powerful lacrimator.

9901. Xylyl Chloride. C₆H₂Cl; mol wt 140.61. C 68.33%, H 6.45%, Cl 25.22%. Prepn of o-isomer: Rabjohn, J. Am. Chem. Soc. 76, 5479 (1954); of m-isomer: van Zanten. Nauta, Rec. Trav. Chim. 79, 1211 (1960); of p-isomer: Newman, George, J. Org. Chem. 26, 4306 (1961).